

TITLE

CHIMERIC GENES AND METHODS FOR INCREASING
THE LYSINE CONTENT OF THE SEEDS OF PLANTS

ABSTRACT

5 Chimeric genes are disclosed. One chimeric gene encodes a plant lysine ketoglutarate reductase and a second chimeric gene encodes lysine-insensitive dihydrodipicolinic acid synthase (DHDPS) which is operably linked to a plant chloroplast transit sequence, all operably linked to plant seed-specific regulatory sequences. Methods for their use to produce increased levels of lysine in the seeds of transformed plants are provided.

10

15

20

25

30

35

LMC/bjm